### North Lake Dam and North Lake

## OWNER

Dallas Power and Light Company.

## ENGINEER (Design)

Ebasco Services Incorporated.

### LOCATION

On South Fork Grapevine Creek in Dallas County, 2 miles southeast of Coppell.

### DRAINAGE AREA

3 square miles. Runoff is supplemented by pumping from Elm Fork Trinity River.

# DAM

Type	Earthfill
Length of dam and dike	7,146 ft
Maximum height	65 ft
Top width	12 ft
Length of the saddle dam	1,500± ft

## SPILLWAY

Type Concrete (uncontrolled)
Control None
Elevation 510.0 ft above msl
Crest length 200 ft

### **OUTLET WORKS**

Water is circulated from the lake to the generating station and returned to the lake.

### POWER GENERATION FEATURES

Number of units 3 Capacity (total) 700,000 kw

## STATE AUTHORIZATION

Permit No. 1864 (Application No. 1993) April 23, 1957, authorizes storage of 16,000 acre-feet of water and annual use of 1,000 acre-feet. In addition, a purchase contract with the city of Dallas allows pumping of 9,550 acre-feet of water annually to the reservoir from Elm Fork Trinity River. The water is released from reservoirs owned by the city of Dallas.

### RESERVOIR DATA (Based on revised curves dated June 6, 1958)

FEATURE	ELEVATION (FEET ABOVE MSL)	CAPACITY (ACRE-FEET)	AREA (ACRES)
Top of dam	515.0	_	_
Spillway crest	510.0	17,000	800
Invert of low flow outlet	494.25	7,600	454

### GENERAL

Construction started 1956
Dam completed 1957
Impoundment of water began March 1957
Power generation began 1959
General contractor for dam 4550,000

